

**AND NOW FOR SOME  
MORE OUTRAGEOUS CLAIMS  
FROM THE COMPANY THAT  
TOLD YOU SO.**

# WE TOLD YOU SO.

We're Data General Corporation.

Two years ago, when we first went into business, we told you we had the world's best mini-computer, the Nova.

We were telling the truth.

Nova is a modern 16-bit mini-computer. It was the first small computer built around medium-scale integration and multi-accumulator architecture. And it's the only small computer with read-only memory that's interchangeable with core.

We've told you some other things since we introduced Nova.

We told you that we would continue to develop revolutionary products: Supernova is the world's fastest mini-computer, with an add time of 300 nanoseconds from read-only memory, 800 nanoseconds from core.

That we'd deliver in volume: close to 500 Novas and Supernovas are installed.

That we would deliver system-oriented peripherals and options: we're shipping Novas and Supernovas in expanded configurations with up to 32K core memory, read-only memory, compatible mag tape units, a variety of discs, a complete line of A/D and D/A conversion equipment, real-time clocks, communications equipment.

That we'd support those systems: there are Data General service men on call in all areas of the country.

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Now we want to tell you about software.  
And something about buying mini-computers.  
It used to be easy to categorize small computers  
(and the companies that built them). "Such-and-such is a hot  
new computer with some revolutionary design features.  
But it's built by a new company, and it just doesn't have  
any software."

Or on the other hand, "Such-and-such is a  
pretty dull computer, with a not-very-exciting design.  
But it's been around for awhile, and you can get lots of  
software with it."

We've decided to turn that story around.

To go with two hot mini-computers, Nova and  
Supernova, we've introduced the biggest package of mini-  
computer software ever put together in one spot at one time.  
By any mini-computer company, big or small, new or old. It  
includes extended ALGOL 60, extended FORTRAN IV,  
single-user and time sharing BASIC, a Disc Operating  
System.

This is big computer software, designed  
specifically for mini-computers. It was put together in an  
integrated effort, not tacked together over several years.

Now it's possible to buy one of the hot  
computers and get software too.

Believe it. We told you so.



# WE TOLD YOU SO.

## **ALGOL**

Data General's ALGOL 60 compiler for the Nova and Supernova is designed for mini-computer systems developers and other sophisticated users.

It is a full implementation of ALGOL 60. It generates optimized assembly language code, or object code directly. Recursive procedures are allowed. Specification of formal parameters is not mandatory. Array declarations may be any arithmetic expression, including function calls. Integer labels and conditional expressions can be used. A program in ALGOL can call a FORTRAN or assembly language program.

Extensions provide for the manipulation of character strings, pointer and based variables, and subscripted labels. Data General's ALGOL provides unlimited precision arithmetic, allowing the user to achieve, for example, up to 30 digits of precision.

No other mini-computer (and very few large computer systems) offers full ALGOL 60 with these features.

## **FORTRAN**

Two FORTRAN IV compilers are available for Nova and Supernova. The first is a full ANSI (USASI) FORTRAN IV which produces assembly language output compatible with ALGOL and uses the same run-time library, so a program in FORTRAN can call a program in ALGOL or assembly language.

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The full FORTRAN IV has extensions which handle mixed mode expressions, provide dynamic storage allocation, and allow generalized subscripts. The subscript may be any legal arithmetic expression, including a function call or another subscripted variable. FORTRAN IV can also handle variable names with any number of characters.

Data General's other form of FORTRAN IV is ANSI (USASI) basic FORTRAN IV. It is a high-speed, single-pass system which generates interpretive object code. While offering the equivalent computing power of 2-pass FORTRAN IV it offers faster compilation turnaround as an alternative to the optimized machine code generated by the 2-pass version. Both compilers allow an error analysis with code generation suppressed.

## **DISC OPERATING SYSTEM**

The Disc Operating System, using Data General's fixed-head disc storage, simplifies user operation and greatly increases the efficiency of programming on the Nova and Supernova. The operating system is device-independent and handles all user I/O, including interrupt-driven buffered service of all devices. The operating system provides a comprehensive file system capability for files of any length and permits either random or sequential access.

A powerful command language interpreter enables easy access and use of the system via a Teletype console. An extensive library of system software is supported, including ALGOL 60 and FORTRAN IV compilers.



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## **BASIC**

Two BASIC systems are available with Nova and Supernova: a single-user version and a timesharing version. BASIC is an easily-learned language that allows the programmer to solve problems using a number of common statements closely resembling simple algebra.

Single-user BASIC makes it possible for a dedicated computer system to be used for general computation when it is not needed in its primary function.

Timesharing BASIC can support 16 users. It includes the matrix extension for the construction of matrices, and the string extensions, which permit the manipulation of alphanumeric data.

## **PLUS**

The Nova and Supernova system software includes standard and relocatable assemblers, relocatable linking loader, character-oriented text editor, completely symbolic debugger, mathematical routines, floating point interpreter, and hardware diagnostics.

Of course that's not everything, not by a good bit. We'll continue our ambitious software development program. And we'll offer even better customer services. And we'll expand our line of computers and peripherals. You'll know about these things when they happen.

We told you so.

**DATA G**

Southboro, Massachusetts (617) 527-1630  
Orlando, Florida (407) 231-4846  
Englewood, Colorado (303) 761-3333  
Palo Alto, California (415) 321-3333  
Toronto, Ontario (416) 447-4444

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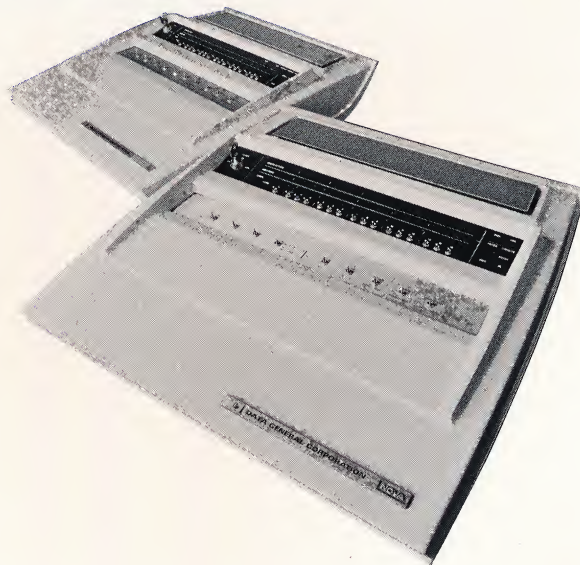
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## DATA GENERAL



Southboro, Massachusetts (617) 485-9100 Clark, New Jersey (201) 381-3500 Bryn Mawr, Pa. (215) 527-1630 Orlando, Florida (305) 425-5505 Chicago, Illinois (312) 539-4838 Richardson, Texas (214) 231-4846 Englewood, Colorado (303) 771-0140 Manhattan Beach, California (213) 376-7917 Palo Alto, California (415) 321-9397 Hull, Quebec (819) 770-2030 Montreal, Quebec (514) 747-1571 Toronto, Ontario (416) 447-8000 Vancouver, British Columbia (604) 731-2711



